



Substitute for form I449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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## **Complete if Known**

Application Number	10/524,508
Filing Date	August 13, 2003
First Named Inventor	BELFORT et al.
Art Unit	1723
Examiner Name	To Be Assigned
Attorney Docket Number	18001/5044

Sheet	1	of	6
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## **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

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	10.	BLATT et al., "Solute Polarization and Cake Formation in Membrane Ultrafiltration: Causes, Consequences, and Control Techniques," <i>in</i> MEMBRANE SCIENCE AND TECHNOLOGY 47-97 (James E. Flinn ed., 1970)	
	11.	CHELLAM & WIESNER, "Evaluation of Crossflow Filtration Models Based on Shear-induced Diffusion and Particle Adhesion: Complications Induced by Feed Suspension Polydispersivity," <i>J. Membr. Sci.</i> 138:83-97 (1998)	
	12.	DAVIS, "Theory for Crossflow Microfiltration," <i>in</i> MEMBRANE HANDBOOK 480-505 (W.S. Winston Ho & Kamalesh K. Sirkar eds., 1992)	
	13.	DAVIS & SHERWOOD "A Similarity Solution for Steady-state Crossflow Microfiltration," <i>Chem. Eng. Sci.</i> 45(11):3203-3209 (1990)	
	14.	DHARMAPPA et al., "A Comprehensive Model for Cross-flow Filtration Incorporating Polydispersity of the Influent," <i>J. Membr. Sci.</i> 65:173-185 (1992)	
	15.	DODDS, "The Porosity and Contact Points in Multicomponent Random Sphere Packings Calculated by a Simple Statistical Geometric Model," <i>J. Colloid Interface Sci.</i> 77:317-327, Abstract (1980)	
	16.	ECKSTEIN et al., "Self-diffusion of Particles in Shear Flow of a Suspension," <i>J. Fluid Mech.</i> 79(Pt.1):191-208 (1977)	
	17.	FARRIS, "Prediction of the Viscosity of Multimodal Suspensions from Unimodal Viscosity Data," <i>Trans. Soc. Rheol.</i> 12(2):281-301 (1968)	
	18.	FIELD et al., "Critical Flux Concept for Microfiltration Fouling," <i>J. Membr. Sci.</i> 100:259-272 (1995)	
	19.	GARDNER, "Delipidation Treatments for Large-scale Protein Purification Processing," Master's Thesis at Virginia Polytechnic Institute and State University (1998)	
	20.	GÉSAN et al., "Performance of Whey Crossflow Microfiltration During Transient and Stationary Operating Conditions," <i>J. Membr. Sci.</i> 104:271-281 (1995)	
	21.	GÉSAN-GUIZIOU et al., "Critical Stability Conditions in Crossflow Microfiltration of Skimmed Milk: Transition to Irreversible Deposition," <i>J. Membr. Sci.</i> 158:211-222 (1999)	

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	23.	GOFF & HILL, "Chemistry and Physics," in <i>DAIRY SCIENCE AND TECHNOLOGY HANDBOOK: 1 PRINCIPLES AND PROPERTIES</i> 1-81 (Y.H. Hui ed., 1993)		
	24.	GONDRET & PETIT, "Dynamic Viscosity of Macroscopic Suspensions of Bimodal Sized Solid Spheres," <i>J. Rheol.</i> 41(6):1261-1274 (1997)		
	25.	GREEN & BELFORT, "Fouling of Ultrafiltration Membranes: Lateral Migration and the Particle Trajectory Model," <i>Desalination</i> 35:129-147 (1980)		
	26.	HAMMER et al., "Quantitative Flow Measurements in Bioreactors by Nuclear Magnetic Resonance Imaging," <i>Bio/Technol.</i> 8:327-330 (1990)		
	27.	HANEMAAIJER, "Microfiltration in Whey Processing," <i>Desalination</i> 53:143-155 (1985)		
	28.	HEATH et al., "Magnetic Resonance Imaging and Modeling of Flow in Hollow-fiber Bioreactors," <i>AIChE J.</i> 36(4):547-558 (1990)		
	29.	HOWELL, "Sub-critical Flux Operation of Microfiltration," <i>J. Membr. Sci.</i> 107:165-171 (1995)		
	30.	JOHN et al., "Expression of an Engineered Form of Recombinant Procollagen in Mouse Milk," <i>Nat. Biotech.</i> 17:385-389 (1999)		
	31.	KOEHLER et al., "Intermolecular Forces Between Proteins and Polymer Films with Relevance to Filtration," <i>Langmuir</i> 13:4162-4171 (1997)		
	32.	KAREN YOUNG KREEGER, <i>Transgenic Mammals Likely to Transform Drug Making</i> , THE SCIENTIST, July 21, 1997, at 11		
	33.	LANDMAN et al., "Pressure Filtration of Flocculated Suspensions," <i>AIChE J.</i> 41(7):1687-1700 (1995)		
	34.	LE BERRE & DAUFIN, "Skimmilk Crossflow Microfiltration Performance Versus Permeation Flux to Wall Shear Stress Ratio," <i>J. Membr. Sci.</i> 117:261-270 (1996)		

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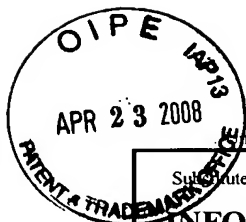
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	35.	LI et al., "An Assessment of Depolarisation Models of Crossflow Microfiltration by Direct Observation Through the Membrane," <i>J. Membr. Sci.</i> 172:135-147 (2000)		
	36.	LUQUE et al., "A New Coiled Hollow-fiber Module Design for Enhanced Microfiltration Performance in Biotechnology," <i>Biotechnol. Bioeng.</i> 65:247-257 (1999)		
	37.	MAVROVOUNIOTIS & BRENNER, "Hindered Sedimentation, Diffusion, and Dispersion Coefficients for Brownian Spheres in Circular Cylindrical Pores," <i>J. Colloid Interface Sci.</i> 124(1):269-283 (1988)		
	38.	MCKEE et al., "Production of Biologically Active Salmon Calcitonin in the Milk of Transgenic Rabbits," <i>Nat. Biotech.</i> 16:647-651 (1998)		
	39.	MCMAHON & MCMANUS, "Rethinking Casein Micelle Structure Using Electron Microscopy," <i>J. Dairy Sci.</i> 81:2985-2993 (1998)		
	40.	MEADE et al., "Expression of Recombinant Proteins in the Milk of Transgenic Animals," in <i>GENE EXPRESSION SYSTEMS: USING NATURE FOR THE ART OF EXPRESSION</i> 399-427 (J. Fernandez & J. Hoeffler eds., 1998)		
	41.	MEIRELES et al., "Effects of Protein Fouling on the Apparent Pore Size Distribution of Sieving Membranes," <i>J. Membr. Sci.</i> 56:13-28 (1991)		
	42.	MOCHIZUKI & ZYDNEY, "Sieving Characteristics of Albumin Deposits Formed During Microfiltration," <i>J. Colloid Interface Sci.</i> 158:136-145 (1993)		
	43.	MORÇÖL et al., "Model Process for Removal of Caseins from Milk of Transgenic Animals," <i>Biotechnol. Prog.</i> 17:577-582 (2001)		
	44.	NAGATA et al., "Cross-flow Membrane Microfiltration of a Bacterial Fermentation Broth," <i>Biotechnol. Bioeng.</i> 34:447-466 (1989)		
	45.	OULD-DRIS et al., "Effect of Cake Thickness and Particle Polydispersity on Prediction of Permeate Flux in Microfiltration of Particulate Suspensions by a Hydrodynamic Diffusion Model," <i>J. Membr. Sci.</i> 164:211-227 (2000)		
	46.	PALECEK & ZYDNEY, "Hydraulic Permeability of Protein Deposits Formed During Microfiltration: Effect of Solution pH and Ionic Strength," <i>J. Membr. Sci.</i> 95:71-81 (1994)		

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	48.	POLLOCK et al., "Transgenic Milk as a Method for the Production of Recombinant Antibodies," <i>J. Immunol. Methods</i> 231:147-157 (1999)	
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	52.	ROMERO & DAVIS, "Global Model of Crossflow Microfiltration Based on Hydrodynamic Particle Diffusion," <i>J. Membr. Sci.</i> 39:157-185 (1988)	
	53.	ROMERO & DAVIS, "Transient Model of Crossflow Microfiltration," <i>Chem. Eng. Sci.</i> 45(1):13-25 (1990)	
	54.	SAMUELSSON et al., "Predicting Limiting Flux of Skim Milk in Crossflow Microfiltration," <i>J. Membr. Sci.</i> 129:277-281 (1997)	
	55.	LARRY SCHWARTZ, <i>Diafiltration: A Fast, Efficient Method for Desalting, or Buffer Exchange of Biological Samples</i> , SCIENTIFIC AND TECHNICAL REPORT (Pall Life Sciences 2003)	
	56.	THOMAS & GALLAHER, "Hydrodynamic Flux Control for Waste Water Application of Hyperfiltration Systems," <i>Membrane Digest</i> , at 43-57 (EPA Report # EPA-R2-228, 1972)	
	57.	VAN REIS et al., "Constant $C_{wall}$ Ultrafiltration Process Control," <i>J. Membr. Sci.</i> 130:123-140 (1997)	
	58.	WALSTRA, "Casein Sub-micelles: Do They Exist?" <i>Int'l Dairy J.</i> 9:189-192 (1999)	

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	59.	WEIGAND et al., “Lateral Migration of Spherical Particles in Laminar Porous Tube Flows: Application to Membrane Filtration,” <i>Physicochem. Hydrodynam.</i> 6(4):393–413 (1985)		
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	61.	ZEMAN & WALES, “Polymer Solute Rejection by Ultrafiltration Membranes,” in II SYNTHETIC MEMBRANES: HYPERFILTRATION AND ULTRAFILTRATION USES 411–434 (A.F. Turbak ed., 1981)		
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	63.	International Search Report for International Patent Application No. PCT/US2003/025230 (June 17, 2004)		

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